January 9, 2018

Exhibit 4



just a few definitions...

Aquifer: a (porous or fractured) water-bearing formation capable of

yielding exploitable quantities of water

Aquitard: retards but does not prevent flow of water

Aquiclude: porous, but very low transmissivity

Aquifuge: no effective porosity (usually applied to engineered barriers)

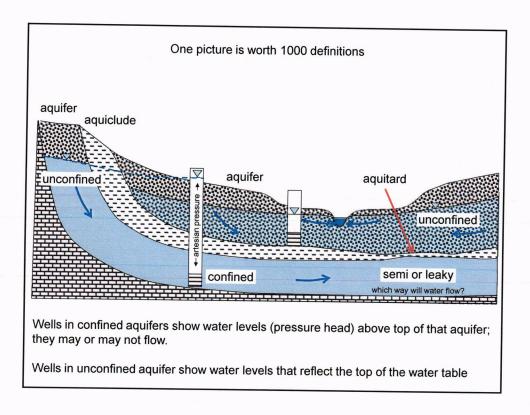
Unconfined

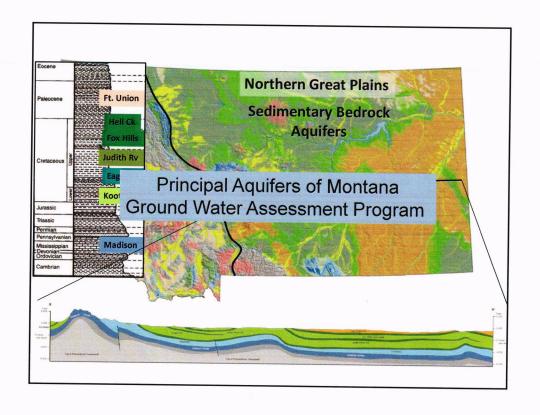
Locally confined

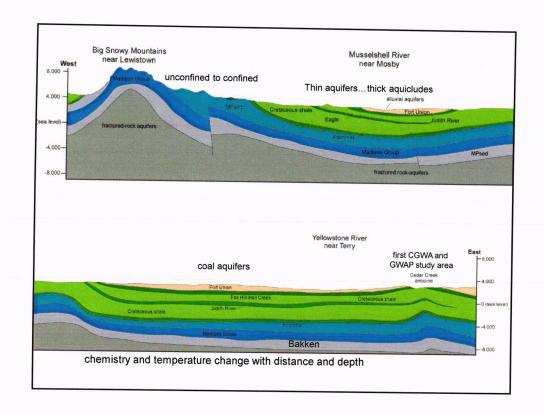
Semi unconfined

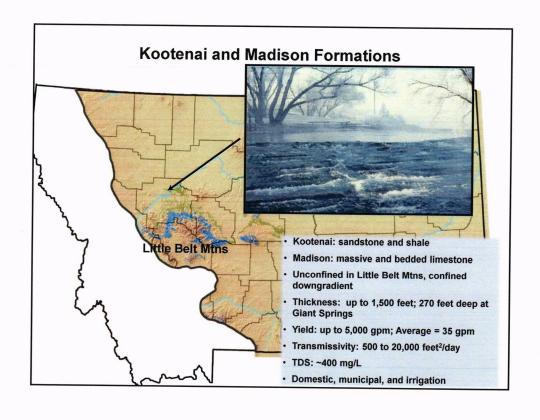
Semi confined (leaky confined)

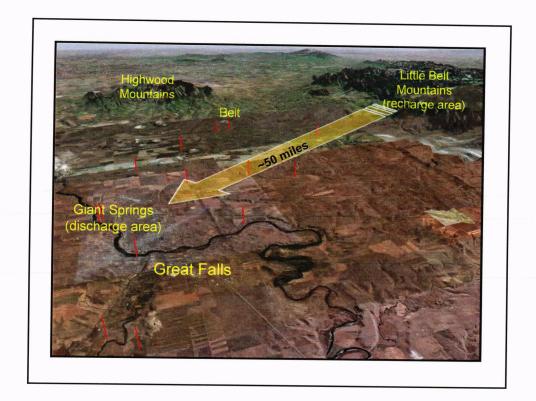
Confined

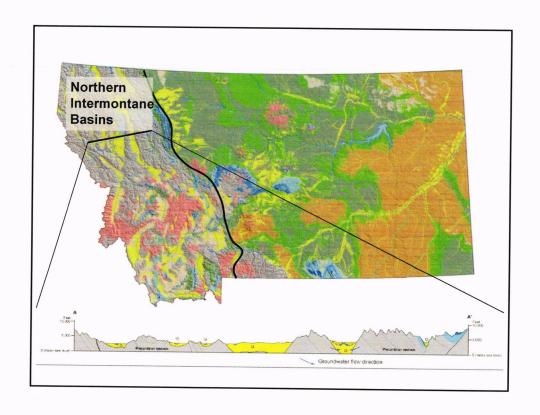


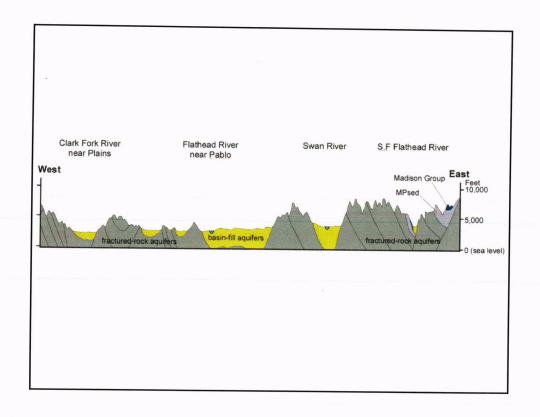


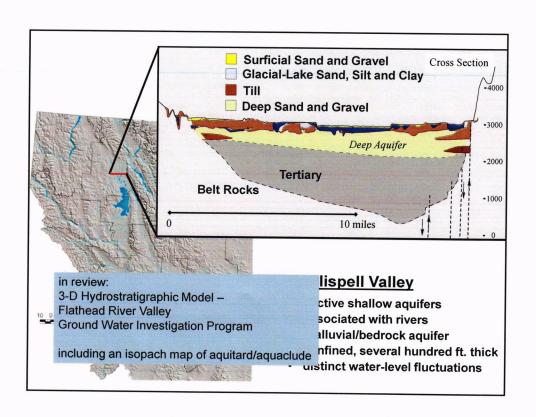


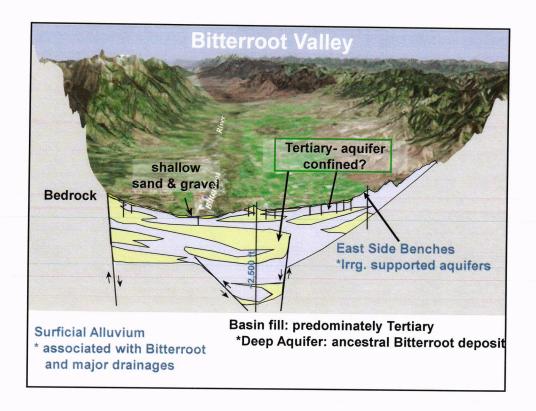


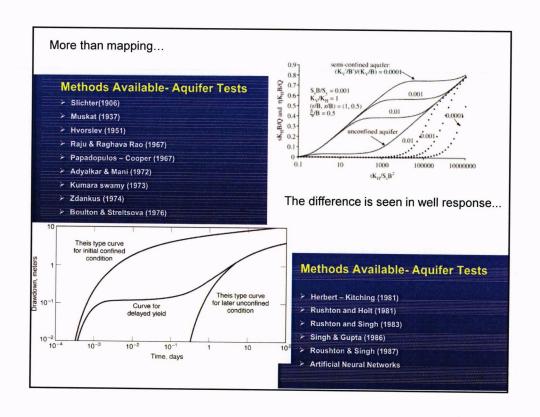












## Summary

aquifer properties (T,S,b) variable, hard to majinteraction w/ surface water likely	
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interaction w/ surface water likely	
	racharga area anh.
over development lower w.t., stream	recharge area only
depletion	loss of pressure head risk of becoming unconfined
injection response same as pumping	same as pumping
chemistry reflects local flow pa	ths reflects regional flow paths